SCIENCE ABSTRACTS.

SECTION A.—PHYSICS.

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ACCESSION
No. 1039
ACCESSION

ERRATA.

Section A.—Physics.

Abstract No. 126, line 12 : *for* Olzewski, *read* Olszewski.

Abstract No. 363, end line : *for* he, *read* the.

Abstract No. 404, line 5 : *for* were, *read* was.

Abstract No. 958, line 1 : *for* Moreau, *read* Moreux.

Abstract No. 1048, line 3 from end : *for* prievously, *read* previously.

Abstract No. 1100, p. 362, line 1 : *for* Jacquerod, *read* Jaquerod.

Abstract No. 1140, line 3 : *for* Kümmel, *read* Kümmell.

Abstract No. 1145, line 9 : *for* and secretes it, *read* which segregates.

Abstract No. 1212, line 5 : *for* Watteville, *read* de Watteville.

Abstract No. 1271, line 1 : *for* Gnesetto, *read* Gnesotto.

Abstract No. 1302, line 1 : *for* Poushine, *read* Puschin.

Abstract No. 1354, line 1 : *for* Zuervain, *read* Quervain.

Abstract No. 1495, line 7 : *for* carbonide, *read* carbamide.

Abstract No. 1589, line 1 : *for* α-Rays for, *read* α-Rays from.

Abstract No. 1623, line 4 : *for* M*n*, *read* Mn (twice).

Abstract No. 2096, line 1 : *for* P. Gouré, *read* G. Gouré

Abstract No. 2283, line 1 : *for* Lebedinski, *read* Lébédinsky

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LIST OF JOURNALS.

In 1905 Abstracts were made from the following Journals. An asterisk (*) indicates that the Journals so marked were received only occasionally.

Abbreviation.	Full Title.	Price.	Publishers, or Agents.
*Acad. Roy. Belg., Bull.	Bulletin de la classe des sciences de l'Academie royale de Belgique	—	Published by the Academy
Acad. Sci. Cracovie, Bull.	Bulletin de l'Académie des Sciences de Cracovie	Single copy, 90 centimes; 8 francs per annum	Librairie de la Société anonyme polonaise, Cracovie
Acad. Sci. St. Pétersbourg, Bull.	Bulletin dé l'Académie Impériale des Sciences de St. Pétersbourg	Single copy, 2 marks, 50 pfennigs	Published by the Academy
Acad. Sci. St. Pétersbourg, Mém.	Mémoires de l'Académie Impériale des Sciences de St. Pétersbourg	—	Published by the Academy
*Accad. Gioenia, Atti	Atti dell' Accademia Gioenia di scienze naturali, Catania	—	Published by the Academy
Accad. Lincei, Atti	Atti della R. Accademia dei Lincei, Roma	—	Lungara 10, Roma, Italy
*Accad. Sci. Fis. Mat. Napoli, Rendiconti	Rendiconti dell' Accademia delle scienze, fisiche e matematiche, Napoli	—	Published by the Academy
Accad. Sci. Torino, Atti	Atti della R. Accademia delle Scienze di Torino	—	Published by the Academy
Akad. Wiss. Wien, Sitz. Ber.	Sitzungsberichte der Mathematisch-Naturwissenschaftlichen Classe der Kaiserlichen Akademie der Wissenschaften, Wien	Single copies, 2s. 4d. to 7s. 6d.	Carl Gerold's Sohn, Barbaragasse 2, Vienna
Amer. Acad., Proc.	Proceedings of the American Academy of Arts and Sciences	—	Published by the Academy, 28, Newbury Street, Boston
Amer. Chem. Journ.	American Chemical Journal	—	Johns Hopkins Press, Baltimore, U.S.A.
Amer. Chem. Soc., Journ.	Journal of the American Chemical Society	$6 per annum	Eschenbach Printing Co., Easton, Pa.
Amer. Electr.	American Electrician	Single copy, 10 cents; $2 per annum	McGraw Publishing Co., 114, Liberty Street, New York, and Hastings House, Norfolk Street, Strand, W.C.
*Amer. Electrochem. Soc., Trans.	Transactions of the American Electrochemical Society	$3 per volume	2910, North Sixteenth Street, Philadelphia, Pa.
Amer. Inst. Elect. Engin., Proc.	Proceedings of the American Institute of Electrical Engineers	Single copy, 50 cents; $6 per annum	Published by the Institute, 95, Liberty Street, New York

These publications can be obtained from Messrs. Williams and Norgate, 14, Henrietta Street, W.C.

Abbreviation.	Full Title.	Price.	Publishers, or Agents.
Amer. Journ. Sci.	The American Journal of Science	$6.40 per ann., post free	The Tuttle, Morehouse & Taylor Co., 123, Temple Street, New Haven, Connecticut, U.S.A.
Amer. Soc. Mech. Engin., Trans.	Transactions of the American Society of Mechanical Engineers	—	Published by the Society, 12, West Thirty-first Street, New York
Amer. St. Rly. Assoc.	Report of the American Street Railway Association	—	2020, State Street, Chicago
Ann. d. Physik	Annalen der Physik	45 marks per annum	J. A. Barth, Rossplatz 17, Leipzig
Annal. Chim. Phys.	Annales de Chimie et de Physique	36 francs per annum	Gauthier-Villars, Quai des Grands-Augustins 55, Paris
Annal. Scientifiques de l'Univ. de Jassy	Annales Scientifiques de l'Université de Jassy	10 francs per volume	Dr. Hurmuzescu, The University, Jassy
*Annal. Soc. Sci. de Bruxelles	Annales de la Société Scientifique de Bruxelles (Louvain)	20 francs per annum	P. Mansion, 6, Quai des Dominicains, Gand
Archiv. Musée Teyler	Archives du Musée Teyler, Haarlem	—	Les Héretiers Loosjes, Haarlem, Holland
Archiv Post, Tele.	Archiv für Post und Telegraphie	—	Published by the Reichs-Postamt, Berlin
Archives d'El. Médicale	Archives d'Électricité Médicale	40 francs per annum	O. Doin, Place de l'Odéon 8, Paris
Archives Néerlandaises	Archives Néerlandaises des Sciences Exactes et Naturelles	6 fl. per volume	Sec. Dutch Society of Sciences, Haarlem
Archives des Sciences	Archives des Sciences Physiques et Naturelles, Genève	Single copy, 2.50 francs; 25 francs per annum	Bureau des Archives, 18 rue de la Pélisserie, Genève
*Ark. för Mat. Astron. och Fysik, Stockholm	Arkiv för Matematik, Astronomi och Fysisk, Stockholm	—	Published by the Academy
*Arkiv Kem. Min. Geol. Stockholm	Arkiv för Kemi, Mineralogi och Geognosi, Stockholm	—	Published by the Academy
Assoc. Ing. El. Liége, Bull.	Bulletin de l'Association des Ingénieurs-Electriciens, Institut Electrotechnique Montefiore, Liége	20 francs per annum	Rue Sainte-Gilles, 31, Liége, Belgium
*Assoc. of Engineering Societies, Journ.	—	—	—
Astrophys Journ.	Astrophysical Journal	Single copy, 50 cents; £1 per annum	The University of Chicago Press, Chicago, and W. Wesley & Son, 28, Essex Street, Strand, W.C.
Atti dell' Assoc. Elettr. Ital.	Atti della Associazione Elettrotecnica Italiana	20 lire per annum	Sede Centrale, 397, Corso Umberto 1, Rome

These publications can be obtained from Messrs. Williams and Norgate, 14, Henrietta Street, W.C.

LIST OF JOURNALS—*continued.*

ABBREVIATION.	FULL TITLE.	PRICE.	PUBLISHERS, OR AGENTS.
Automobile Club Journ.	Automobile Club Journal	Single copy, 6d.	18, Down Street, London, W.
Automobile Rev.	Automobile Review, Chicago	Single copy, 10 cents; $3 per annum	Baltimore Building, 21, Quincy Street, Chicago
Automotor Journ.	The Automotor Journal	Single copy, 3d.	F. King & Co., Ltd., 44, St. Martin's Lane, London, W.C.
Beibl. Ann. d. Physik	Beiblätter zu den Annalen der Physik	24 marks per annum	J. A. Barth, Rossplatz 17, Leipzig
Ber. Deut. Chem. Gesell.	Berichte der Deutschen Chemischen Gesellschaft	——	R. Friedländer & Sohn, Carlstrasse 11, Berlin, N.W.
British Optical Journal	The British Optical Journal	Single copy, 4d.; 5s. per annum	39, Temple House, Tallis Street, London, E.C.
Bull. Soc. Chim.	Bulletin de la Sociéte Chimique de France	33 francs per annum	Masson & Cie, 120, Boulevard Saint-Germain, Paris
Bull. Soc. d'Encouragement	Bulletin de la Société d'Encouragement pour l'Industrie Nationale, with Revue de Métallurgie	36 francs per annum	Published by the Society, 44, Rue de Rennes, Paris
*Bureau of Standards, Bull.	Bulletin of the Bureau of Standards	——	Government Printing Office, Washington
Cambridge Phil. Soc., Proc.	Proceedings of the Cambridge Philosophical Society	Single copy, 2s. 6d.	C. F. Clay, Fetter Lane, E.C.
Cambridge Phil. Soc., Trans.	Transactions of the Cambridge Philosophical Society	Single copy, 7s. 6d.	C. F. Clay, Fetter Lane, E.C.
Canad. Elect. News	Canadian Electrical News and Engineering Journal	Single copy, 10 cents; $1.50 per annum	C. H. Mortimer Publishing Co., Ltd., Confederation Life Building, Toronto, Canada
Cassier	Cassier's Magazine	Single copy, 1s.; 12s. per annum, post free	33, Bedford Street, Strand, W.C.
Centralblatt Accumulatoren	Centralblatt für Accumulatoren- Technik und verwandte Gebiete	3 marks 50 pf. per quarter	Dr. Franz Peters, Gross-Lichterfelde-West, Bellevuestr. 40, Germany
Chem. and Metallurgical Soc., S. Africa, Journ.	The Journal of the Chemical, Metallurgical, and Mining Society of South Africa	Single copy, 2s.; £1 4s. per annum	F. Rowland, 5 & 8, Corporation Buildings, Rissik Street, Johannesburg
Chem. Centralblatt	Chemisches Centralblatt	2 vols. yearly, 36 marks per vol.	R. Friedländer & Sohn, Carlstrasse 11, Berlin, N.W.
Chem. News	Chemical News and Journal of Physical Science	Single copy, 4½d.; £1 per annum, post free	E. J. Davey, 16, Newcastle Street, Farringdon Street, E.C.

These publications can be obtained from Messrs. WILLIAMS and NORGATE, 14, Henrietta Street, W.C.

Abbreviation.	Full Title.	Price.	Publishers, or Agents.
Chem. Soc., Journ.	Journal of the Chemical Society	£2 per annum	Gurney & Jackson, 10, Paternoster Row, E.C.
Chem. Soc., Proc.	Proceedings of the Chemical Society	—	Gurney & Jackson, 10, Paternoster Row, E.C.
Coll. Sci. Engin., Mem. Kyōto	Kyōto Imperial University College of Science and Engineering, Memoirs		Kyōto Imperial University, Kyōto, Japan
Chem. Zeit.	Chemiker Zeitung	7 marks per quarter	Chemiker Zeitung, Cöthen, Anhalt
Comptes Rendus	Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences	44 francs per annum	Gauthier - Villars, Quai des Grands-Augustins 55, Paris
Deutsch. Phys. Gesell., Verh.	Berichte der Deutschen Physikalischen Gesellschaft	8 marks per annum	Fr. Vieweg u. Sohn, Verlagsbuchhandlung, Braunschweig, Germany
Écl. Électr.	L'Éclairage Électrique	60 francs per annum, post free	Ch. Cointe, 40, Rue des Écoles, Paris
Elect. Engin.	The Electrical Engineer	Single copy, 3d.; 13s. per annum, post free	139 & 140, Salisbury Court, Fleet Street, E.C.
Elect. Mag.	The Electrical Magazine	10s. 6d. per annum, post free	Electrical Publishing Co., Ltd., 4, Southampton Row, W.C.
Elect. Rev.	The Electrical Review (London)	Single copy, 4d.; 19s. 6d. per annum, post free	H. Alabaster, Gatehouse & Co., 4, Ludgate Hill, E.C.
Elect. Rev., N.Y.	Electrical Review (New York)	Single copy, 10 cents; $5 per annum	Times Buildings, 13–21, Park Row, New York, and H. W. Hall, 42, Old Broad Street, London, E.C.
Electrical Times	The Electrical Times and Lightning	Single copy, 2d.; 10s. 6d. per annum	8, Bream's Buildings, Chancery Lane, London, E.C.
Elect. World and Engineer	Electrical World and Engineer	Single copy, 10 cents; $6 per annum	McGraw Publishing Co., 114, Liberty Street, New York, & Hastings House, Norfolk Street, Strand, London
Electrician	The Electrician	Single copy, 6d.; 26s. per annum	1, 2, & 3, Salisbury Court, Fleet Street, E.C.
Électricien	L'Électricien	Single copy, 50 centimes; 25 francs per annum	L. de Soye et Fils, Rue des Fossés-St.-Jacques 18, Paris
Electricity, N.Y.	Electricity (New York)	Single copy, 10 cents; $3 per annum	136, Liberty Street, New York
Electrochem. Ind., N.Y.	Electrochemical and Metallurgical Industry, New York	Single copy, 25 cents; $2 per annum	Electrochemical Publishing Company, 114–118, Liberty Street, New York City
Electro-Chemist	The Electro-Chemist and Metallurgist	Single copy, 1s.	Sherard Cowper-Coles & Co., Ltd., 82, Victoria Street, Westminster

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LIST OF JOURNALS—*continued.*

Abbreviation.	Full Title.	Price.	Publishers, or Agents.
Elekt. Bahnen	Elektrische Bahnen und Betriebe	16 marks per annum	R. Oldenbourg, Glückstrasse, 8, Munich
Elekt. Runds.	Elektrische und Polytechnische Rundschau	12 marks per annum	Bonness & Hachfeld, Potsdam, Germany
Elektrochem. Zeitschr.	Elektrochemische Zeitschrift	18 marks 40 pfg. per annum	M. Krayn, Kurfürstenstrasse, 11, Berlin, W. 57
Elektrotechn. Zeitschr.	Elektrotechnische Zeitschrift	20 marks per annum	J. Springer, Monbijouplatz, 3, Berlin, N., 24
Elettricista, Rome	L'Elettricista	12s. per annum	Via Cavour 222–226, Rome
Elettricità, Milan	L'Elettricità	Single copy, 50 cents; 20 fr. per annum	12, Foro Bonaparte, Milan, Italy
Engineer	The Engineer (London)	Single copy, 6½d. post free; £1 9s. per annum, post free	33, Norfolk Street, Strand, W.C.
Engineering	Engineering	Single copy, 6½d. post free; £1 9s. 2d. per annum, post free	35 & 36, Bedford Street, Strand, W.C.
Eng. Club, Phil., Proc.	Proceedings of the Engineers' Club of Philadelphia	$2 per volume	1122, Girard Street, Philadelphia
Eng. Mag.	The Engineering Magazine	Single copy, 1s.; 12s. 6d. per annum, post free	222–225, Strand, London, W.C.
Eng. News	Engineering News	Single copy, 15 cents; $5 per annum	220, Broadway, New York
Eng. Record	The Engineering Record	Single copy, 10 cents; $6 per annum	McGraw Publishing Co., 114, Liberty Street, New York, & Hastings House, Norfolk Street, Strand, London, W.C.
Eng. Rev.	The Engineering Review	Single copy, 6d.; 9s. per annum, post free	104, High Holborn, W.C.
Faraday Soc., Trans.	Transactions of the Faraday Society	10s. 6d. per annum	Published by the Society, 82, Victoria Street, S.W.
France Automobile	La France Automobile	Single copy, 50 cents; 20 francs per annum	68, Avenue de la Grande-Armée, Paris
Frank. Inst., Journ.	Journal of the Franklin Institute	Single copy, 50 cents; $5 per annum	Franklin Institute, Philadelphia
Gasmotorentechnik	Die Gasmotorentechnik	11 marks per annum	Boll & Pockardt, Georgenstrasse 23, Berlin, N.W., 7

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Abbreviation.	Full Title.	Price.	Publishers, or Agents.
Gazzetta Chim. Ital.	Gazzetta della Societa Chimica Italiana	44 lire per annum	Published by the Society, Via Panisperna 89, Rome
Génie Civil	Génie Civil	Single copy, 1 franc; £1 16s. per annum	Rue de la Chaussée d'Antin 6, Paris
Gesell. Wiss. Göttingen, Nachr., Math.-Phys. Klasse	Nachrichten von der Kgl. Gesellschaft der Wissenschaften zu Göttingen, Mathematisch-physikalische Klasse	—	Lüder Horstmann, Göttingen, Germany
Houille Blanche	La Houille Blanche	Single copy, 1 fr. 25 cents; 15 francs per annum	A. Gratier & J. Rey, Grande-Rue 23, Grenoble
Ind. Élect.	L'Industrie Électrique	Single copy, 1 franc; 26 francs per annum	A. Lahure, 9, Rue de Fleurus, Paris
Ind. Électrochim.	L'Industrie Électrochimique	Single copy, 1 franc; 12 francs per annum	H. Becker, 5, Rue Guy-Patin, Paris
Inst. Civ. Engin., Proc.	Proceedings of the Institution of Civil Engineers	—	Published by the Institution, Great George Street, London, S.W.
Inst. Elect. Engin., Journ.	Journal of the Institution of Electrical Engineers	Single copy, 5s.	E. & F. N. Spon, Ltd., 57, Haymarket, S.W.; and Spon & Chamberlain, 123, Liberty Street, New York
Inst. Engin. and Shipbuilders, Trans.	Transactions of the Institution of Engineers and Shipbuilders in Scotland	—	Published by the Institution, 207, Bath Street, Glasgow
Inst. Mech. Engin., Proc.	Proceedings of the Institution of Mechanical Engineers	—	Published by the Institution, Storey's Gate, St. James's Park, London, S.W.
Inst. Naval Architects, Trans.	Transactions of the Institution of Naval Architects	42s. per annum	5, Adelphi Terrace, Strand, London, W.C.
Iron and Steel Inst., Journ.	Journal of the Iron and Steel Institute	32s. per annum	E. & F. N. Spon, Ltd., 57, Haymarket, S.W.
Iron and Steel Mag.	The Iron and Steel Magazine	Single copy, 50 cents; $6 per annum	Rotch Building, Cambridge, Mass., U.S.A.
*Jahrbuch d. Radioakt. u. Elektrotonik	Jahrbuch der Radioaktivität und Elektrotonik	Quarterly; 12–16 marks per annum	S. Hirzel, Leipzig
Journal of Electricity, S. F.	Journal of Electricity, Power, and Gas (San Francisco)	Single copy, 25 cents	Room 302, Rialto Building, San Francisco
Journ. Phys. Chem.	Journal of Physical Chemistry	$4 per annum	Published at Cornell University, Ithaca, U.S.A.
Journ. de Physique	Journal de Physique	18 fr. per ann., post free	Rue Notre-Dame-des-Champs, 119 bis, Paris
*Journ. Prakt. Chemie	Journal für Praktische Chemie	24 marks per annum	J. A. Barth, Rossplatz 17, Leipzig

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Abbreviation.	Full Title.	Price.	Publishers, or Agents.
Journ. Télégraph.	Journal Télégraphique	Single copy, 50 centimes; 5 francs per annum	Bureau International des Administrations Télégraphiques, Berne
Jurn. Russk. Fisik.-Chimičesk. Obščestva	Jurnal Russkago Fisiko-Chimičeskago Obščestva	9 roubles per annum	Published by the Russian Physico-Chemical Society, Imperial University, St. Petersburg
K. Bayer. Akad., München., Ber.	Königliche Bayerische Academie der Wissenschaften, Sitzungsberichte (Mathematisch-Physikalische Klasse)	—	Published by the Academy
Kongl. Danske Vidensk. Selsk. Kjöbenhavn, Förh.	Öfversigt over Det Kongelige Danske Videnskabernes Selskabs Förhandlinger	5 kr. per annum	Andr. F. Höst og Sön, Copenhagen
Königl. Materialprüfungsamt Mitt.	Mitteilungen aus den Königlichen Materialprüfungsamt zu Gross-Lichterfelde-West, Berlin	12 marks per annum	J. Springer, Verlagsbuchhandlung, Monbijouplatz, 3, Berlin, N.
Konink. Akad. Wetensch. Amsterdam, Versl.	Verslagen van de gewone vergaderingen der Wis-en Natuur-kundige afdeeling der Koninklijke Akademie van Wetenschappen te Amsterdam	—	Published by the Academy
Konink. Acad. Wetensch. Amsterdam, Proc.	—	—	Published by the Academy
*La Vie Automobile	La Vie Automobile	Single copy, 50 centimes	Quai des Grands-Augustins, 49, Paris
*Le Radium	Le Radium, la Radioactivité et les Radiations	Single copy, 1 franc; 15 francs per annum	Masson & Cie, 120, Boulevard Saint-Germain, Paris
*Liebig's Ann. d. Chemie	Liebig's Annalen der Chemie	24 marks per annum	C. F. Winter, Leipzig
Locomotion Automobile	La Locomotion Automobile	Single copy, 50 centimes; 20 francs per annum	60, Rue de Provence, Paris
Manchester Lit. and Phil. Soc., Mem.	Memoirs of the Manchester Literary and Philosophical Society	Varies for separate parts	36, George Street, Manchester
Mathematical and Physical Soc. Tokyo.	Tōkyō Sūgaku-Butsurigakkwai, Kiji-Gaiyō	—	Sec. Math. and Physical Society, Tōkyō, Japan
Mech. Eng.	The Mechanical Engineer	Single copy, 3d.; 12s. 6d. per annum, post free	53, New Bailey Street, Manchester
Metallurgie	Metallurgie	6 marks per quarter	W. Knapp, Mühlweg, 19, Halle a. S., Saale, Germany

These publications can be obtained from Messrs. WILLIAMS and NORGATE, 14, Henrietta Street, W.C.

Abbreviation.	Full Title.	Price.	Publishers, or Agents.
Mois Scientif. Industriel	Le Mois Scientifique et Industriel	Single copy, 1 fr. 50 c.; 25 fr. per ann., post free	15, Rue de Cluny, Paris
Monthly Weather Rev.	Monthly Weather Review	Single copy, 20 cents; $2 per annum	Published by the U.S. Weather Bureau, Washington, D.C.
Motor Car Journ.	The Motor Car Journal	Single copy, 1d.; 6s. 6d. per annum	Cordingley & Co., 27–33, Charing Cross Road, W.C.
Motorwagen	Der Motorwagen	12 marks per annum	M. Krayn, Kurfürstenstrasse, 11, Berlin, W.
N. Cimento	Nuovo Cimento	20 lire per annum	A. Lavacchini, Via Gino Capponi 3, Florence
Nature	Nature	Single copy, 6d.	Macmillan & Co., Ltd., St. Martin's Street, London, W.C.
Nova Scotian Inst., Proc. & Trans.	Proceedings and Transactions of the Nova Scotian Institute of Science	Single copy, $½	Published by the Institute, Halifax, Nova Scotia
Öfvers. Kongl. Vet. Akad. Stockholm, Förh.	Öfversigt af Kongliga Vetenskapsakademiens Förhandlingar, Stockholm	—	Published by the Academy
Page's Weekly	Page's Weekly (formerly Page's Magazine)	Single copy, 6d.	Clun House, Surrey Street, Strand, W.C.
Phil. Mag.	London, Edinburgh, & Dublin Philosophical Magazine	2s. 6d. per month, occasionally 5s.	Taylor & Francis, Red Lion Court, Fleet Street, E.C.
Photographic Journ.	The Photographic Journal	Single copy, 1s.	Messrs. Harrison & Sons, 45, Pall Mall, S.W.
Phys. Rev.	Physical Review	Single copy, 50 cents; $5 per annum	Macmillan & Co., Ltd., London, and 66, Fifth Avenue, New York
Phys. Soc., Proc.	Physical Society of London, Proceedings	—	Taylor & Francis, Red Lion Court, Fleet Street, E.C.
Phys. Tech. Reichsanstalt, Wiss. Abh.	Wissenschaftliche Abhandlungen der Physikalisch-Technischen Reichsanstalt	30 marks per volume	J. Springer, Verlagsbuchhandlung, Monbijouplatz 3, Berlin, N.
Phys. Zeitschr.	Physikalische Zeitschrift	29 mks. per ann., post free	S. Hirzel, Königsstrasse 2, Leipzig
Power (Eur. Edition)	Power (London)	$2 per annum; 1s. per copy; 10s. per annum	Hill Pub. Co., World Bldg., New York, and 6, Bouverie Street, Fleet Street, E.C.
Preuss. Akad. Wiss. Berlin, Sitz. Ber.	Sitzungsberichte der Preussischen Akademie der Wissenschaften zu Berlin	12 marks per annum	Königliche Akademie der Wissenschaften, Berlin
*Real Acad. de Ciencias, Madrid	Revista de la Real Academia de Ciencias, Madrid	—	Published by the Academy
*Real Istit. Veneto, Atti	Atti del R. Instituto veneto di scienze, lettere ed arti, Venezia	—	Published by the Academy
Revue de l'El. Lausanne	Revue de L'Électricité, Lausanne	8 francs per annum	Rue Pépinet, 3, Lausanne
Rev. Électrique	La Revue Électrique	Single copy, 1 fr. 50 c.; 30 francs per annum	Gauthier-Villars, Quai des Grands-Augustins, 55, Paris

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LIST OF JOURNALS—*continued.*

Abbreviation.	Full Title.	Price.	Publishers, or Agents.
Revue Int. d'Électrothérapie	Revue Internationale d'Électrothérapie et de Radiothérapie	Single copy, 50 centimes; 6 francs per annum	Rue Beaujon, 9, Paris
Roentgen Soc., Journ.	Journal of the Roentgen Society	16s. per annum	Wertheimer, Lea & Co., Clifton House, Worship Street, Finsbury, E.C.
*Royal Astron. Society, Monthly Notices	Monthly Notices of the Royal Astronomical Society	10s. per annum	Published by the Society, Burlington House, London, W.
Roy. Dublin Soc., Proc.	Scientific Proceedings of the Royal Dublin Society	Single copy, 6d.	Williams & Norgate, 20, South Frederick Street, Edinburgh
Roy. Dublin Soc., Trans.	Transactions of the Royal Dublin Society	—	Williams & Norgate, 20, South Frederick Street, Edinburgh
Roy. Inst., Proc.	Proceedings of the Royal Institution of Great Britain	—	Published by the Institution, 21, Albemarle Street, W.
Roy. Soc., Edinburgh, Proc.	Proceedings of the Royal Society of Edinburgh	Varies for separate papers	Messrs. R. Grant & Son, 107, Princes Street, Edinburgh, and Messrs. Williams & Norgate, 14, Henrietta Street, Covent Garden, London
Roy. Soc., Edinburgh, Trans.	Transactions of the Royal Society of Edinburgh	Varies for separate papers	Messrs. R. Grant & Son, 107, Princes Street, Edinburgh, and Messrs. Williams & Norgate, 14, Henrietta Street, Covent Garden, London
Roy. Soc. N. S. Wales, Journ. and Proc.	Journal and Proceedings of the Royal Society of New South Wales	—	5, Elizabeth Street North, Sydney, New South Wales
Roy. Soc., Phil. Trans.	Philosophical Transactions of the Royal Society of London	Varies for separate papers, from 1s.	Harrison & Sons, 45, St. Martin's Lane, London, W.C.
Roy. Soc., Proc.	Proceedings of the Royal Society of London	Varies for separate parts, from 1s. 6d.	Harrison & Sons, 45, St. Martin's Lane, London, W.C.
Roy. Soc. Victoria, Proc.	Proceedings of the Royal Society of Victoria	—	Published by the Society, Melbourne London Agents: Williams & Norgate, 14, Henrietta Street, Covent Garden, W.C.
Schweiz. Elektrot. Zeit.	Schweizerische Elektrotechnische Zeitschrift	25 francs per annum, post free	F. Amberger, Sihlhofstrasse 12, Zurich
Science	Science	Single copy, 15 cents; $5 per annum	Macmillan & Co., 66, Fifth Avenue, New York

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Abbreviation.	Full Title.	Price.	Publishers, or Agents.
Scientific American	Scientific American	Single copy, 10 cents; 16s. 5d. per annum, post free	361, Broadway, New York
Scientific Australian	Scientific Australian	2s. 6d. per annum, post free	Turner & Henderson, 16–18, Hunter Street, Adelaide
Soc. Arts, Journ.	Journal of the Society of Arts	Single copy, 6d.	G. Bell & Sons, York House, Portugal Street, W.C.
Soc. Belge Élect., Bull.	Bulletin de la Société Belge d'Électriciens	Varies for single copies; 20 frs. per ann., post free	Ramlot Frères et Sœurs, 25, Rue Grétry, Brussels
Soc. Chem. Ind., Journ.	Journal of the Society of Chemical Industry	36s. per annum	Published by the Society, Palace Chambers, 9, Bridge Street, Westminster, S.W.
Soc. d'Encouragement. Rev. de Métallurgie	see Bull. Soc. d'Encouragement	—	—
Soc. Franç. Phys., Séances	Bulletin des Séances de la Société Française de Physique	—	Published by the Society, 44, Rue de Rennes, Paris
Soc. Imp. Nat. Moscou, Bull.	Bulletin de la Société Impériale des Naturalistes de Moscou	—	J. N. Kouchnereff & Co., Pimenowskaia, Moscou
*Soc. Ing. Civ., France, Mém.	Mémoires de la Société des Ingénieurs Civils de France	—	Published by the Society, Rue Blanche, 19, Paris
Soc. Int. Élect., Bull.	Bulletin de la Société Internationale des Électriciens	Single copy, 2.50 francs; 27 francs per annum	Gauthier-Villars, Quai des Grands-Augustins, 55, Paris
Street Rly. Journ.	Street Railway Journal	Single copy, 1st issue of each month, 20 cents; others, 10 cents; $6 per annum, post free	McGraw Publishing Co., 114, Liberty Street, N.Y., and A. C. Shaw, Hastings House, Norfolk Street, Strand, W.C.
Street Rly. Rev.	European Street Railway Review	Single copy, 1s.; 10s. per annum	Kenfield Pub. Co., 45–47, Plymouth Place, Chicago, and 82, Fleet Street, E.C.
Technology Quarterly	The Technology Quarterly and Proceedings of the Society of Arts (Boston)	$3 per annum	Massachusetts Institute of Technology, Boston, Mass.
Terrestrial Magnetism	Terrestrial Magnetism and Atmospheric Electricity	Single copy, 75 cents; $2.75 per annum	Jennings & Graham, 220, W. Fourth St., Cincinnati
Tram. Rly. World	The Tramway and Railway World	Single copy, 1s. post free	Amberley House, Norfolk Street, W.C.
*Verein zur Beförd. Gewerbefl., Verh.	Verhandlungen des Vereins zur Beförderung des Gewerbefleisses	30 marks per annum	L. Simion, Nachf., Berlin

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LIST OF JOURNALS—*continued.*

ABBREVIATION.	FULL TITLE.	PRICE.	PUBLISHERS, OR AGENTS.
*Vid.-Selsk. Forh., Christiania ...	Christiania Videnskabs-Selskabs Förhandlinger	—	J. Dybwad, Christiania
West. Electn.	Western Electrician (Chicago).....	Single copy, 10 cents; $5 per annum	510, Marquette Building, Chicago
West. Soc. Engin., Journ.	Journal of the Western Society of Engineers	$3 per volume of six numbers	Published by the Society, 1734–41, Monadnock Block, Chicago
*Zeitschr. Analyt. Chemie	Zeitschrift für Analytische Chemie	18 marks per annum.....	C. W. Kreidel, Wiesbaden
*Zeitschr. Angew. Chemie	Zeitschrift für Angewandte Chemie	20 marks per annum.....	J. Springer, Berlin, N.
Zeitschr. Anorg. Chem.	Zeitschrift für Anorganische Chemie	Single copy, 3 marks.....	Leopold Voss, Leipzig
Zeitschr. Elektrochem.	Zeitschrift für Elektrochemie und angewandte physikalische Chemie	5 marks per quarter	W. Knapp, Mühlweg 19, Halle a. S., Saale, Germany
Zeitschr. Elektrotechn., Wien.....	Zeitschrift für Elektrotechnik (Wien) (now Elektrotechnik und Maschinenban)	30 fr. per ann., post free	Nibelungengasse 7, Vienna
Zeitschr. ges. Turbinenwesen.....	Zeitschrift für das gesamte Turbinenwesen	18 marks per annum	R. Oldenbourg, Glückstrasse, 8, Munich
Zeitschr. Instrumentenk.	Zeitschrift für Instrumentenkunde	20 marks per annum.....	J. Springer, Monbijouplatz 3, Berlin
Zeitschr. Instrumentenk., Beib. ...	Beiblatt zur Zeitschrift für Instrumentenkunde		
Zeitschr. Phys. Chem.	Zeitschrift für Physikalische Chemie	Single copy about 4s. 3d.	W. Engelmann, Leipzig
Zeitschr. Vereines Deutsch. Ing.	Zeitschrift des Vereines Deutscher Ingenieure	Single copy, 1 mark 45 pfg.; 36 marks per annum, post free	J. Springer, Monbijou-Platz 3, Berlin, N.
*Zeitschr. Wiss. Phot.	Zeitschrift für Wissenschaftliche Photographie, Photophysik, und Photochemie	21s. per annum	J. A. Barth, Leipzig

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